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Page 1 pf 7

1644 FEB 13 2002

TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/458,302A

DATE: 02/05/2002

TIME: 11:34:07

Input Set : A:\-144.app

Output Set: N:\CRF3\02052002\I458302A.raw

PS

ENTERED

4 <110> APPLICANT: Epimmune, Inc.
5 John Fikes
6 Alessandro Sette
7 John Sidney
8 Scott Southwood
9 Robert Chesnut
10 Esteban Celis
11 Elissa Keogh
12 Epimmune Inc.
14 <120> TITLE OF INVENTION: Inducing Cellular Immune Responses to
15 Carcinoembryonic Antigen Using Pepetide and Nucleic Acid
16 Compositions
18 <130> FILE REFERENCE: 018623-014400US
20 <140> CURRENT APPLICATION NUMBER: US 09/458,302A
21 <141> CURRENT FILING DATE: 1999-12-10
23 <150> PRIOR APPLICATION NUMBER: US 08/027,146
24 <151> PRIOR FILING DATE: 1993-03-05
26 <150> PRIOR APPLICATION NUMBER: US 08/073,205
27 <151> PRIOR FILING DATE: 1993-06-04
29 <150> PRIOR APPLICATION NUMBER: US 08/159,184
30 <151> PRIOR FILING DATE: 1993-11-29
32 <150> PRIOR APPLICATION NUMBER: US 08/205,713
33 <151> PRIOR FILING DATE: 1994-03-04
35 <150> PRIOR APPLICATION NUMBER: US 09/189,702
36 <151> PRIOR FILING DATE: 1998-11-10
38 <160> NUMBER OF SEQ ID NOS: 2385
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102 <400> SEQUENCE: 5
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104 1 5 10
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116 Ala Thr Gly Gln Phe Arg Val Tyr
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134 <211> LENGTH: 9

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154 <400> SEQUENCE: 9
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159 <210> SEQ ID NO: 10
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161 <212> TYPE: PRT
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168 Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp
169 1 5 10
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182 1 5 10
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186 <211> LENGTH: 9
187 <212> TYPE: PRT
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Artificial Peptide
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198 <210> SEQ ID NO: 13
199 <211> LENGTH: 10
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203 <220> FEATURE:
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Input Set : A:\-144.app

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 221 1 5 10
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 237 <210> SEQ ID NO: 16
 238 <211> LENGTH: 11
 239 <212> TYPE: PRT
 240 <213> ORGANISM: Artificial Sequence
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 246 Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr
 247 1 5 10
 250 <210> SEQ ID NO: 17
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 252 <212> TYPE: PRT
 253 <213> ORGANISM: Artificial Sequence
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 256 <223> OTHER INFORMATION: Artificial Peptide
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 259 His Leu Phe Gly Tyr Ser Trp Tyr
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 265 <212> TYPE: PRT
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 269 <223> OTHER INFORMATION: Artificial Peptide
 271 <400> SEQUENCE: 18
 272 His Ser Ala Ser Asn Pro Ser Pro Gln Tyr
 273 1 5 10
 276 <210> SEQ ID NO: 19

RAW SEQUENCE LISTING

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Input Set : A:\-144.app

Output Set: N:\CRF3\02052002\I458302A.raw

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279 <213> ORGANISM: Artificial Sequence
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291 <212> TYPE: PRT
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302 <210> SEQ ID NO: 21
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304 <212> TYPE: PRT
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325 1           5
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329 <211> LENGTH: 8
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333 <220> FEATURE:
334 <223> OTHER INFORMATION: Artificial Peptide
336 <400> SEQUENCE: 23
337 Ile Ser Pro Leu Asn Thr Ser Tyr
338 1           5
341 <210> SEQ ID NO: 24
342 <211> LENGTH: 8
343 <212> TYPE: PRT
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 02/05/2002

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Input Set : A:\-144.app

Output Set: N:\CRF3\02052002\I458302A.raw

L:31067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2385